

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1.-10. (cancelled)

11. (currently amended) The apparatus as claimed in claim ~~40~~23, wherein the resistance element has at least two resistance segments which are arranged in series.

12. (previously presented) The apparatus as claimed in claim 11, wherein the resistance segments are arranged within the electric motor.

13. (currently amended) The apparatus as claimed in claim ~~40~~23, wherein the resistance element is in the form of a resistance wire.

14. (previously presented) The apparatus as claimed in claim 11, wherein each resistance segment is in the form of a resistance wire.

15. (previously presented) The apparatus as claimed in claim 12, wherein each resistance segment is in the form of a resistance wire.

16. (previously presented) The apparatus as claimed in claim 13, wherein the resistance wire is provided in the form of at least one turn on a winding of the electric motor.

17. (currently amended) The apparatus as claimed in claim ~~40~~23, wherein the second circuit element is a TRIAC.

18. (currently amended) The apparatus as claimed in claim ~~40~~23, wherein the resistance element is a non-reactive resistor.

19. (currently amended) The apparatus as claimed in claim ~~40~~23, wherein said harmonics created by the phase ~~gating~~control and to be reduced by the apparatus comprise harmonics up to a region of 4 kHz.

20. (previously presented) The apparatus as claimed in claim 19, wherein said harmonics are in the region of the third harmonic.

21. (cancelled)

22. (cancelled)

23. (new) Apparatus for controlling the power of an AC supply voltage supplying an electric motor by phase control and for reducing harmonics caused by said

phase control, comprising a first switching element connected in series with said electric motor and driven at a first firing angle into a conducting state by a control device for performing a phase control of said electric motor during a given half cycle of the AC supply voltage, and a second switching element and a resistor element both being electrically connected in series to form a series connection, said series connection being connected in parallel to the first switching element, said control device driving the second switching element at a second firing angle into a conducting state at a first point in time (t_1) during said given half cycle that is shortly before a second point in time (t_2) when the first switching element is driven into the conducting state; the improvement comprising a fan coupled to said electric motor for generating an airflow to cool said electric motor, and arranging said resistor element in said airflow to cool the resistor element.

24. (new) Apparatus for controlling the power supplied to an electric motor by phase control of a supply voltage, the electric motor having a fan coupled thereto for generating an airflow to cool the electric motor, and comprising a first switching element and a resistor element connected in series to form a series connection, said series connection being connected in series with said electric motor; wherein said resistor element is arranged in said airflow to cool said resistor element.

25. (new) The apparatus as claimed in Claim 24, further including a second switching element connected in series with said electric motor and connected in

parallel with said series connection, and being driven at a first firing angle into a conducting state by a control device for performing phase control of the electric motor.

26. (new) The apparatus as claimed in Claim 25, wherein said control device drives said first switching element into a conducting state at a first point in time that is shortly before a second point in time when said second switching element is driven into a conducting state, to thereby reduce the harmonics caused by said phase control.

27. (new) The apparatus as claimed in Claim 24, wherein the electric motor has a motor winding and a motor shaft and the fan is connected to the motor shaft for generating an airflow across said motor winding, and further wherein said resistor element is disposed between said fan and said motor winding.